

Illinois Department of Transportation
Bureau of Materials and Physical Research
**APPROVED/QUALIFIED PRODUCT LIST OF PACKAGED, DRY, RAPID HARDENING
CEMENTITIOUS MATERIALS FOR CONCRETE REPAIRS**
April 3, 2015

This list supersedes the January 9, 2015 list.

Guide Bridge Special Provision "Structural Repair of Concrete" (Revised July 26, 2013)
Recurring Special Provision for Subsealing of Concrete Pavements (Revised January 1, 2007)
Supplemental Specifications and Recurring Special Provisions, Section 1018 (Adopted January 1, 2014)
Standard Specification for Road and Bridge Construction, Section 1001 (Adopted January 1, 2012)
Current Policy Memorandum, "Quality Control/Quality Assurance Program for Precast Concrete Products"
Manual for Fabrication of Precast Prestressed Concrete Products

RAPID HARDENING CEMENT (Section 1001)

For information regarding new product submittal, click the "New Submittal" bookmark to the left.

Material Code No. 37901

The rapid hardening cement is used for Class PP-4 concrete. The Material Code No. is 22106, "PATCHING MIXTURE, RAPID HARDENING CEMENT".

No materials approved at this time.

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R1 MORTAR (Section 1018)

Material Code No. 22100

Quikrete
500 Marathon Parkway
Lawrenceville, GA 30046
Phone: 770-216-9580
Attn: Wendy Henry
Producer/Supplier No. 5719-03
www.quikrete.com
"QUIKRETE QUICK-SETTING CEMENT"

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R2 MORTAR (Section 1018)

Material Code No. 22101

Dayton Superior Corporation
4226 Kansas Ave.
Kansas City, KS 66106
Phone: 800-745-3700 x44187
Attn: Lisa Weaver
Producer/Supplier No. 494-05
www.daytonsuperiorchemical.com
"HD-50 HEAVY DUTY CONCRETE PATCH"

Quikrete
500 Marathon Parkway
Lawrenceville, GA 30046
Phone: 770-216-9580
Attn: Wendy Henry
Producer/Supplier No. 5719-03
www.quikrete.com
**"QUIKRETE COMMERCIAL GRADE
FASTSET REPAIR MORTAR"**

Specco Industries, Inc.
13087 Main Street
Lemont, IL 60439
Phone: 630-257-5060
Attn: Jeffrey C. Bencsik
Producer/Supplier No. 3936-01
www.specco.com
"SPECCOPATCH RS"

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**R2 MORTAR (Section 1018)
(Continued)**

Material Code No. 22101

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: 219-448-1416
Fax: 219-322-5625
Attn: Nick Graziani
Producer/Supplier No. 2231-01
www.sikaconstruction.com
"SIKAQUICK 1000"
"SIKAQUICK 2500"

Utilicor Technologies Inc.
49 Sheffield Street
Toronto, ON, Canada, M6M 3E5
Phone: 416-391-3901
Fax: 416-391-1400
Attn: E. Marshall Pollock
Producer/Supplier No. 6555-01
www.utilicor.ca
"UTILIBOND" (natural concrete color only)

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R3 MORTAR (Section 1018)

Material Code No. 22103

BASF Corporation-Building Systems
889 Valley Park Drive
Shakopee, MN 55379
Phone: 952-496-6000
800-243-6739

Attn: Mark Aument

Producer/Supplier No. 4179-05

www.BuildingSystems.BASF.com

"MASTEREMACO T 545"**

"MASTEREMACO T 545HT"**

**shall not be used where the material will contact
limestone aggregate.

Buzzi Unicem USA, Inc.
(as manufactured by Western Material & Design, LLC
P/S Number 6604-01)
100 Brodhead Road, Suite 230
Bethlehem, PA 18017-8989
Phone: 610-882-5013
Fax: 610-866-9430
Attn: William Krupa
Supplier No. 6097-08
www.buzziunicemusa.com
"ULTI-GROUT"

CTS Cement Mfg. Co. / Rapid Set Products
11065 Knott Avenue, Suite A
Cypress, CA 90630
Phone: 800-929-3030 x103
Attn: Grant Kao
Producer/Supplier No. 4894-03
www.ctscement.com
"RAPID SET MORTAR MIX"
"RAPID SET DOT REPAIR MIX"
"RAPID SET CEMENT ALL"

ChemMasters
300 Edwards Street
Madison, OH 44057-3112
Phone: 440-428-2105
800-486-7866
Fax: 440-428-7091
Attn: John Kirk
Producer/Supplier No. 5410-01
www.chemmasters.net
"CHEMSPEED 65"

The Euclid Chemical Company
19218 Redwood Road
Cleveland, OH 44110-2799
Phone: 800-321-7628
Fax: 216-531-9596
Attn: Brian Lewis
Producer/Supplier No. 614-01
www.euclidchemical.com
"EXPRESS REPAIR"

MAPEI Corporation
1144 East Newport Center Drive
Deerfield Beach, FL 33442
Phone: 954-531-5545
Attn: Andrew Fulkerson
Producer/Supplier No. 6354-01
www.MAPEI.us
"PLANITOP 18"

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**R3 MORTAR (Section 1018)
(Continued)**

Material Code No. 22103

MAPEI Americas
1144 East Newport Center Drive
Deerfield Beach, FL 33442
Phone: 954-246-8888
Attn: Andrew Fulkerson
Producer/Supplier No. 6354-01
www.mapei.us
"PLANITOP 18 ES"

13087 Main Street
Lemont, IL 60439
Phone: 630-257-5060
Attn: Jeffrey C. Bencsik
Producer/Supplier No. 3936-01
www.specco.com
"SPECRETE HIGHWAY REPAIR 928"
"SPECRETE PHASTPATCH D.O.T."

W.R. Meadows
P.O. Box 338
Hampshire, IL 60140
Phone: 800-825-5976
Fax: 847-683-4544
Attn: Adam Dunn
Producer/Supplier No. 1266-02
www.wrmeadows.com
"FUTURA® -15"

The Quikrete Companies
500 Marathon Parkway
Lawrenceville, GA 30046
Phone: 770-216-9580
Attn: Wendy Henry
Producer/Supplier No. 5719-01
www.quikrete.com
**"QUIKRETE COMMERCIAL GRADE
FASTSET NONSHRINK GROUT"**

SpecChem
1511 Baltimore Avenue, Suite 600
Kansas City, MO 64108
Phone: 866-791-8700
Attn: Hunter Bakke
Producer/Supplier No. 6389-01
www.specchemllc.com
"REPCON 928"

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R1 CONCRETE (Section 1018)

Material Code No. 22102 "PATCHING MIXTURE, CONCRETE, R1"

No materials approved at this time.

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R2 CONCRETE (Section 1018)

Material Code No. 22104 "PATCHING MIXTURE, CONCRETE, R2"

No materials approved at this time.

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R3 CONCRETE (Section 1018)

Material Code No. 22105 "PATCHING MIXTURE, CONCRETE, R3"

Buzzi Unicem USA, Inc.
(as manufactured by Western Material & Design, LLC
P/S Number 6604-01)
100 Brodhead Road, Suite 230
Bethlehem, PA 18017-8989
Phone: 610-882-5013
Fax: 610-866-9430
Attn: William Krupa
Supplier No. 6097-08
"ULTI-PAVE³"

CTS Cement Mfg. Co. / Rapid Set Products
11065 Knott Avenue, Suite A
Cypress, CA 90630
Phone: 800-929-3030 x103
Attn: Grant Kao
Producer/Supplier No. 4894-03
www.ctscement.com
"RAPID SET CONCRETE MIX"

**Packaged, Dry, Rapid Hardening Cementitious Materials
For Concrete Repairs – Cement
Submittal for Testing and Approval**

Effective: July 27, 2007

A. Scope

The following guidelines are provided to clarify the submittal requirements and expedite the testing process for approving packaged, dry, rapid hardening cement according to Section 1018 of the Department's Standard Specifications for Road and Bridge Construction¹, Special Provision for Subsealing of Concrete Pavements¹, and current BDE special provisions¹.

B. Procedure

When submitting packaged, dry, rapid hardening cement to the Department, the following shall be included:

- The specific product brand name,
- Material Safety Data Sheet,
- Technical Data Sheet,
- A signed letter stating that the subject material will not be changed without written notification to the Department,
- Contact person's name, title, address, email address, and phone number, and
- Acknowledgement by Company (see next page).

The manufacturer shall submit three to five "as-sold" packages of the subject material intended for use on Department projects. Each bag shall show the product name and mixing instructions.

The sample and submittal information shall be sent to:

Melinda Winkelman
Illinois Department of Transportation
Bureau of Materials & Physical Research
126 East Ash Street
Springfield, IL 62704-4766

Any sample provided without the required information listed will not be tested. Any changes in the formulation outside the manufacturer's original parameters will necessitate a new sample submittal.

The manufacturer will be notified when the sample testing is complete. For questions regarding the testing and approval process, contact Melinda Winkelman at 217-782-0117.

C. Recertification

Annual recertification of all packaged, dry, rapid hardening cement is required. During the last quarter of the calendar year, a recertification letter will be sent to the manufacturer. The recertification paperwork is due January of the following year. For example, the recertification letter is mailed late November 2005 and due by mid January 2006.

¹ <http://www.dot.il.gov/desenv/hwyspecs.html>

Illinois Department of Transportation
Bureau of Materials and Physical Research

**Packaged, Dry, Rapid Hardening Cementitious Materials
For Concrete Repairs – Cement
Submittal for Testing and Approval**

Effective: July 27, 2007

Instructions for Acknowledgement by Company:

The owner, partner, or corporate officer shall complete the following and return a signed and dated copy with the product submittal or recertification.

_____ desires to obtain advance approval of materials to be
(Insert name of company)
supplied to Department of Transportation contractors as more fully described herein. I
and _____ understand that the Department of Transportation
(Insert name of company)
reserves the right in its contracts to approve materials at the source of supply as
provided in Article 106.01 of the Standard Specifications for Road and Bridge
Construction. I and _____ further understand that approval of
(Insert name of company)
company supplied material pursuant to this request does not constitute a contract to
supply material to the State of Illinois or any of its contractors, and that the Department
of Transportation does not assure or guarantee that any materials approved hereunder
will be supplied to the State or any of its contractors. In consideration of approval, I and
_____ agree to the terms, conditions and performance
(Insert name of company)
standards of the Standard Specifications for Road and Bridge Construction.

Type of Company: Individual ☐ Partnership ☐ Corporation ☐

Company Name _____

Printed Name _____

Signature _____

Title _____

Business Address _____

City/State/Zip Code _____

Date of Signature _____

**Packaged, Dry, Rapid Hardening Cementitious Materials
For Concrete Repairs - Mortar or Concrete
Submittal for Review and Approval**

Effective: July 27, 2007
Revised: [January 17, 2014](#)

A. Scope

The following guidelines are provided to clarify the submittal requirements and expedite the review process for approving packaged, dry, rapid hardening mortar or concrete according to Section 1018 of the Standard Specifications for Road and Bridge Construction¹.

B. Procedure

When submitting packaged, dry, rapid hardening mortar or concrete to the Department, the following shall be included:

- The specific product brand name,
- Class of material (R1, R2, or R3 according to ASTM C 928),
- Independent laboratory test results which show the material meets ASTM C 928,
- [Independent laboratory test results showing the water soluble chloride ion content percent by weight \(mass\) of cement according to ASTM C 1218 at 28 – 42 days of age. Test results shall be performed and resubmitted every 2 years \(during recertification for even numbered calendar years; for example, 2014, 2016, etc.\).](#)
- Material Safety Data Sheet,
- Technical Data Sheet,
- A signed letter stating the subject material will not be changed without written notification to the Department,
- Contact person's name, title, address, email address, and phone number, and
- Acknowledgement by Company (see next page).

The submittal information shall be sent to:

Melinda Winkelman
Illinois Department of Transportation
Bureau of Materials & Physical Research
126 East Ash Street
Springfield, IL 62704-4766

Any changes in the formulation outside the manufacturer's original parameters will necessitate new submittal of independent laboratory test results.

The manufacturer will be notified upon completion of the Department's review. For questions regarding the review and approval process, contact Melinda Winkelman at 217-782-0117.

C. Recertification

Annual recertification of all packaged, dry, rapid hardening mortar or concrete is required. During the last quarter of the calendar year, a recertification letter will be sent to the manufacturer. The recertification paperwork is due January of the following year. For example, the recertification letter is mailed late November 2014 and due by mid January 2015.

¹ <http://www.dot.il.gov/desenv/hwyspecs.html>

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**Packaged, Dry, Rapid Hardening Cementitious Materials
For Concrete Repairs - Mortar or Concrete
Submittal for Review and Approval**

Effective: July 27, 2007

Instructions for Acknowledgement by Company:

The owner, partner, or corporate officer shall complete the following and return a signed and dated copy with the product submittal or recertification.

_____ desires to obtain advance approval of materials to be
(Insert name of company)
supplied to Department of Transportation contractors as more fully described herein. I
and _____ understand that the Department of Transportation
(Insert name of company)
reserves the right in its contracts to approve materials at the source of supply as
provided in Article 106.01 of the Standard Specifications for Road and Bridge
Construction. I and _____ further understand that approval of
(Insert name of company)
company supplied material pursuant to this request does not constitute a contract to
supply material to the State of Illinois or any of its contractors, and that the Department
of Transportation does not assure or guarantee that any materials approved hereunder
will be supplied to the State or any of its contractors. In consideration of approval, I and
_____ agree to the terms, conditions and performance
(Insert name of company)
standards of the Standard Specifications for Road and Bridge Construction.

Type of Company: Individual ☐ Partnership ☐ Corporation ☐

Company Name _____

Printed Name _____

Signature _____

Title _____

Business Address _____

City/State/Zip Code _____

Date of Signature _____